	Application No.	Applicant(s)
Notice of Allowability	09/986,479	PEARSON ET AL.
	Examiner	Art Unit
	Jerry Martin Blevins	2883
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>amendment filed May</u>	<u>/ 16, 2007</u> .	
2. The allowed claim(s) is/are 1-15 and 17-20.		
 3.	e been received. e been received in Application No cuments have been received in this of this communication to file a reply IENT of this application. iitted. Note the attached EXAMINER es reason(s) why the oath or declara ist be submitted. son's Patent Drawing Review (PTO s Amendment / Comment or in the C 84(c)) should be written on the drawi the header according to 37 CFR 1.121(sit of BIOLOGICAL MATERIAL to	national stage application from the complying with the requirements S AMENDMENT or NOTICE OF ation is deficient. 948) attached Office action of the back) of d). must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	9. 🗆 OtherBRIAN	(PTO-413), te

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DETAILED ACTION

Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Response to Arguments

Applicant's arguments, see pages 7-9, filed May 16, 2007, with respect to claims 1-15 and 17-120 have been fully considered and are persuasive. The rejection of claims 1-15 and 17-19 has been withdrawn.

Allowable Subject Matter

Claims 1-15 and 17-20 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art, as best exemplified by US 2002/0191887 to Bidnyk, teaches an optical performance monitor (Figs. 1,2) for measuring the performance of optical networks, comprising a demultiplexer (AWG 116) for demultiplexing an input beam into a plurality of wavelength channels; an array of divided output waveguides (108,209), each divided output waveguide positioned to receive a corresponding demultiplexed wavelength channel from said demultiplexer, and each divided output waveguide laterally separating said corresponding demultiplexed wavelength into a first portion (108) and a second portion (209); and a detector array

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(204) having sensor elements positioned to receive said respective first and second portions of said demultiplexed wavelength channels. However, Bidnyk, alone or in combination with the prior art, fails to disclose or render obvious an undivided output waveguide between adjacent pairs of divided output waveguides, positioned to receive background noise signals having wavelengths between the demultiplexed wavelength channels, the detector array receiving the background noise signals for comparing the intensity of radiation received by the divided output waveguides with the intensity of the noise signal to determine a signal to noise ratio for each of the demultiplexed wavelength channels.

Regarding claim 17, the prior art, as best exemplified by Bidnyk, teaches an optical performance monitor for measuring the performance of optical networks (Figs. 1,2), comprising a planar waveguide demultiplexer (AWG 116) for demultiplexing an input beam into a plurality of wavelength channels (channels 1-12); an array of divided output waveguides (108,209), each divided output waveguide including an opening positioned to receive a corresponding demultiplexed wavelength channel from said demultiplexer, laterally separating said corresponding demultiplexed wavelength channel into a first portion (108) and a second portion (209); a slab waveguide (112) coupling said output waveguides to said planar waveguide demultiplexer; and a detector array (204) having sensor elements positioned to receive said respective first and second portions of said demultiplexed wavelength channels. However, Bidnyk, alone or in combination with the prior art, fails to disclose or render obvious that the wavelength channels have their nominal wavelengths centered on an ITU grid, that each divided

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output waveguide includes a waveguide divider forming first and second split waveguide sections, and monitoring means for measuring drift for each wavelength channel by comparing measurements of the first and second portions for each wavelength channel from the array of detectors with predetermined nominal measurements.

Regarding claim 10, the prior art, as best exemplified by Bidnyk, teaches a method of monitoring the performance of an optical network (Figs. 1,2), comprising the steps of demultiplexing an input beam into a plurality of wavelength channels (by demultiplexer 116, into channels 108, 209); receiving said demultiplexed wavelength channels in respective openings of divided output waveguides (108,209), separating each of said demultiplexed wavelength channels into first and second laterally spaced portions (any two of channels 1-12); and detecting the relative intensity of said first and second laterally spaced portions to determine the drift of said demultiplexed wavelengths from nominal values (paragraph 43). However, Bidnyk, alone or in combination with the prior art, fails to disclose or render obvious that the wavelength channels have their nominal wavelengths centered on an ITU and the step of providing a waveguide divider in each of output waveguide, which divides each output waveguide into first and second split waveguide sections.

Claims 2, 4-9, 19, and 20 are allowed based on their dependence from allowed base claim 1.

Claims 3 and 18 allowed based on their dependence from allowed base claim 17.

Claims 11-15 are allowed based on their dependence from allowed base claim

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry Martin Blevins whose telephone number is 571-272-8581. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JMB

BRIAN HEALY
PRIMARY PATENT EXAMINER